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## **Declarations under Rule 4.17:**

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB,

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(54) Title: SYSTEM AND METHOD OF PROVIDING RESERVATION MASKS WITHIN A COMPUTE ENVIRONMENT

ESTABLISHING A POLICY TO PROVIDE COMPUTE
RESOURCES WITHIN A PERIOD OF TIME FROM
THE RECEPTION OF A REQUEST FOR A
RESERVATION

CREATING A ROLL—BACK RESERVATION MASK
WHICH SLIDES AHEAD OF CURRENT TIME BY
THE PERIOD OF TIME

RECEIVING A REQUEST FOR A RESERVATION,
WHEREIN THE PERIOD OF TIME BY WHICH
COMPUTE RESOURCES MUST BE AVAILABLE
AFTER A REQUEST FOR A RESERVATION IS
DYNAMICALLY MODIFIABLE

(57) Abstract: A system, method and computer-readable media for providing a reservation mask for compute resources such as a cluster or a grid. The method aspect comprises identifying a need type and a group of available resources, creating a reservation mask over the identified group of resources and if a request from a consumer matches the need type, then constraining the creation of a reservation for the consumer to only use resources within the reservation mask.



- GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
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